

ABSTRACT OF THE DISCLOSURE

A capacitive sensor for a coil-on plug ignition testing apparatus includes a first portion of the capacitive sensor and a second portion of the capacitive sensor, at least one of which has a substantially planar base, and each of which has one or more engagement members projecting downwardly therefrom. One of or both of the first portion and the second portion may be a capacitive element forming a part of the capacitive sensor. The second portion is connected, and is configured to slide relative, to the first portion. A biasing element is disposed between the first and second portions to bias the first portion toward the second portion and to maintain the first portion and second portion in a compressed state. The first portion may be translated relative to the second portion against a bias of the biasing element, to an extended state for securing to a coil-on plug housing. An electrical connector electrically connects the first portion and/or the second portion forming a capacitive element to an output terminal.